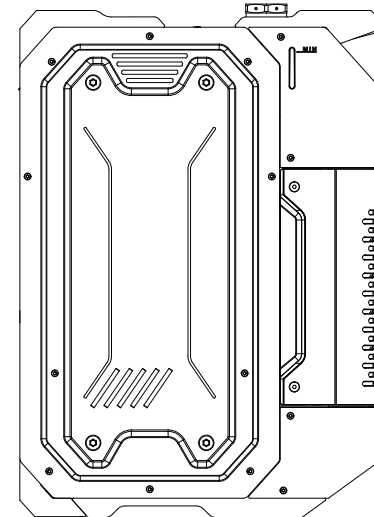


PORTABLE OUTDOOR CAMPING AND VEHICLE HEATER

SP-TG600W



READ ALL INSTRUCTIONS BEFORE USING

Ensure to use this product correctly and to prevent injury or property damage to you or others, this instruction manual and the construction instructions of the product are illustrated in this manual. The illustrations are described below, please read all instructions as following.

WARNING If used incorrectly, it can cause serious injury or even death.

CAUTION If used incorrectly, it may cause personal injury and damage to other objects.

LABEL ILLUSTRATION

⚠ CAUTION

❗ MUST TO DO

🚫 TO PROHIBITED

🔥 DO NOT BURNING

⊗ DO NOT DISASSEMBLY

Precautions

❗ The information about storage and using environment.

- ⚠ 1) Remove any shipping protection before using the device.
- 🚫 2) The burner is strictly prohibited for use in caravans, enclosed tents, boats, cars, mobile homes or similar. Only for outdoor.
- 🚫 3) The device can only be used on naturally ventilated ground or in areas with air flow, where gas leaks and combustion products can be quickly dispersed through natural convection. Do not use the device in enclosed spaces.
- ⚠ 4) When the device is not in use, please detach the gas canister from the device and turn the device off.
- 🔥 5) The device should be stored in a dry and well-ventilated place out of direct sunlight. Keep away from direct sunlight, heat and fire.
- 🚫 6) It is strictly prohibited to use or place the heater in a hot environment (e.g. in the intense sun or in a high temperature car).
- 🚫 7) Do not expose the device to fire or high-temperature environments.
- 🚫 8) Do not expose the device to extreme temperatures or humidity, and do not leave the heater in your car for long time.
- 🚫 9) Do not use the device in areas with strong electromagnetic interference.
- 🚫 10) Do not use indoors. Prevent the device from being soaked or exposed to rain during use.
- 🚫 11) Do not store device with gas tanks or cylinders connected, they must be disconnected and stored in a well-ventilated area.
- 12) Ensure the storage location complies with AS/NZS1596 standards if storing indoors.
- 13) The device can only be used in outdoors and should be operated at least 80cm away from all flammable surfaces, fabrics, and inflammable materials.
- 14) The device can only be used on a solid and stable horizontal surface made of non-flammable or fire-resistant materials and requires direct ventilation or a well-ventilated environment.
- ⚠ 15) If the device is in an unused or stored state, please charge it once every three months (including the use of heating and power generation) to prevent power shortage when in use.

Precautions

! Using caution.

- ⚠ 1) To reduce the danger, keep close eye to the children nearby when using.
- ⚠ 2) The parts that are accessible when using may be hot, do not touch and keep children away!
- ⚠ 3) Even after a short use of the device, always pick up the device by the handle.
- ⚠ 4) Never using the device if the connector leaks, damage or not function properly.
- ⊘ 5) Never attempt to move the device while it is operating. Ensure it is shut off till cool and remove the gas tank or gas pipe before move it.
- ⊘ 6) Never modify the device to fit with other connector or gas tank, gas bottle.
- ⊘ 7) Never leave the device unattended while using.
- ⊘ 8) Never modify the device for cooking or any other reasons.
- ⊗ 9) Never disassembly the device, or may result in fire hazard, explosion, personal injury, and unpredictable risks.
- ⊘ 10) Never block the air vent for any way, please charge it in a well-ventilate space.
- ⊘ 11) Never immerse or spray the device.
- ⊘ 12) Do not place any objects on the top of the device.
- ⊘ 13) Do not cover or block the air intake and exhaust ports of the device.
- ⊘ 14) Do not bend or crush the device's hoses and wires.

! Spare parts notice.

- 1) The device should only be used with the accompanying accessories.
- ⚠ 2) Ensure to use the fittings with brand or produce by a professional manufacturer, or may causing a risk of electrocution and gas leaks.

Precautions

- ⚠ 3) Adding non-coolant liquid to this device when coolant is lacking may cause damage to the device.
- 4) Use the charging cable provided or recommended by the manufacturer to charge the device. Place the charging cable in a place easy to disconnect and ensure proper ventilation during charging.
- ⊘ 5) Do not use a damaged power cord or plug to charge the device.
- ⊘ 6) Do not use a damaged output wire to use the device.
- 7) The device should only be used with ULPG refillable cylinders with standard AS2469 certified 3/8" LHBSP inlet connector or non-refillable 468 gram disposable propane tanks with DOT-39, UN1075 certification.
- 8) Use with 7/16-28" threaded cans and connectors. Never install other kinds of gas containers or a danger may cause.

⚠ About Gas Leakage Diagnosis And Operation Matters

- 1) Connect with the gas tank, test the leaks with following features: any leaks noise, any indispensable smell of gas.
- 2) When test gas leaks, take the device to a well-ventilate space and away from fire or heat source. Never test gas leaks with flame.
- 3) If any air leakage is detected, please immediately close the gas valve and transfer to the above safe area.
- 4) If any leakage (gas odor) is detected on the device and cannot be stopped, please transfer to a well ventilated and safe area and call the local fire alarm number for assistance.

Precautions

Gas Leaks Test

Ensure all the connective position is well fixed and gas connective joint could pass the test before using.

Never use flame or pilot light to test gas leaks.

- 1) Only refer to a qualified service technician to repair the product.
- 2) Regularly inspect the unit for signs of wear, leaks or improper operation. If you notice symptoms such as burner combustion problems, damaged connections, or leaking seals or gas controls, do not attempt repairs, contact customer service.
- 3) To check if there is any residual gas in the cylinder, disconnect and hold the cylinder (gas tank) in an upright position and shake it from side to side. If there is a sound or a feeling of liquid movement inside the cylinder (gas tank), there is gas in the cylinder (gas tank).

Ensure to replace the gas in outdoors with a well-ventilate space, ensure no people, no animals and fire-flame, pilot light and the heater device or electric device.

- 1) Ensure the sealing parts and the soft gas pipe are installed properly before the gas leaks test. (if using the gas pipe)
- 2) Ensure to properly connect the device with the gas tank in a good situation before the connection.
- 3) Never using the device if the sealing parts are damaged or badly abraded.
- 4) Do not use the device if it is leaking, damaged, or not functioning properly.

Precautions

Safety Feature

The device is equipped with the following safety features:

Over-Temperature Sensor

Once the coolant temperature reaches $90^{\circ}\text{C}\pm 2^{\circ}\text{C}$ after the device is power on, it will trigger the over-temperature protection mechanism, then the device will shut down. The device will automatically reignite and resume burning only when the coolant temperature drops below 60°C .

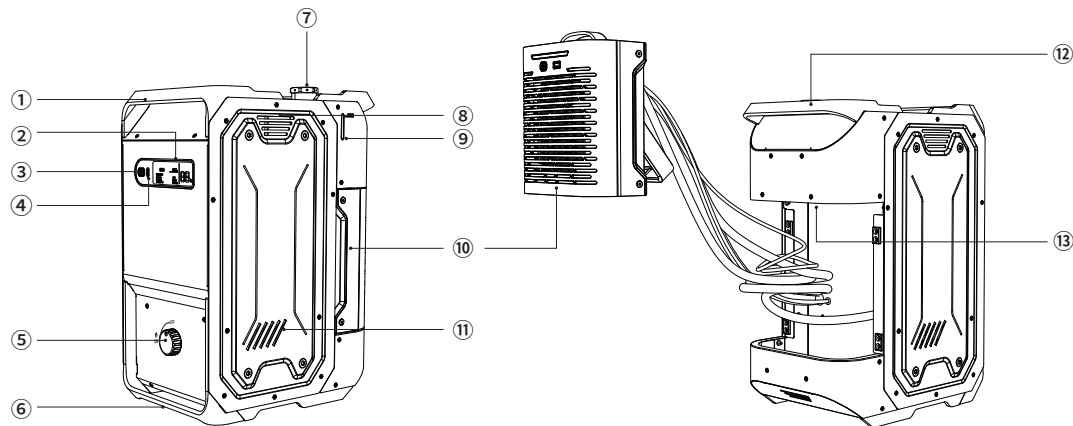
Water Flow Sensor

When the hose is bent or squeezed during the operation of the device, the coolant inside the hose can not flow normally, the device will sound a warning to alert and automatically shut off the fire and stop operation.

Tilt Sensor

If the device moves during operation or operates on unstable or non-solid surfaces, the device will sound an audible warning and automatically shut off the fire and stop operation until a suitable surface is detected.

Instruction

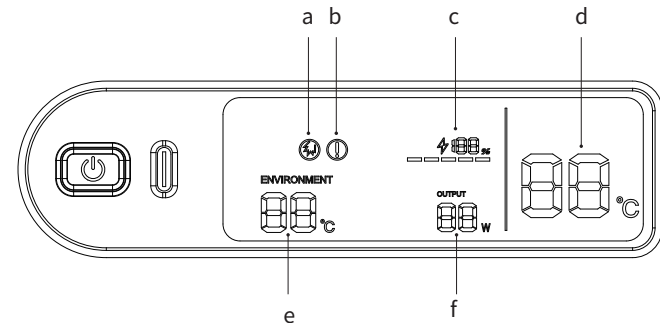


- | | | |
|------------------------------|----------------------------------|----------------------|
| ① Handle | ⑥ Protective Scaffolds | ⑪ Air Inlet |
| ② LCD Screen | ⑦ Air Valve | ⑫ Handle |
| ③ On-Off Button | ⑧ Exhaust Vent | ⑬ Gas Tank Interface |
| ④ Type-C Interface | ⑨ Water Level Observation Window | |
| ⑤ Fire Power Adjustment Knob | ⑩ Sub-device | |

Connection And Function Instruction

1. Handle

2. LCD Screen



a. Tipping Alarm

A long dripping alarm noise and a flashing label shown when the device tipped over 45 angles ;

b. Faulty Alarm

A long dripping alarm noise and a flashing label shown when the product is malfunction, including water shortage, gas shortage, failed to ignite and the water pump are faulty ;

c. Battery Indicator

Display the battery percentage left and the battery bar left ;

When the battery level is less than 30%, the system will turn off the Type-C port output; when the battery level is less than 5%, the system will turn off the sub-device USB-A port output and ambient light;

Connection And Function Instruction

d. Air Outlet Temperature

Display the sub-device hot-blast temperature in Celsius.

e Air Inlet Temperature

Display the environment temperature around the water heater in Celsius ;

f. Output Power

Display Type-C interface output power in watts ;

3. On-Off Button

Long press for 2 seconds to turn on/off.

4. Type-C Interface

Output/input power for 30W.

5. Fire Power Adjustment Knob

Adjust to fire icon position ignition, left and right knob can adjust the size of fire.

6. Protective Scaffolds

7. Air Valve

8. Exhaust Vent

Outlet the burned wasted gas.

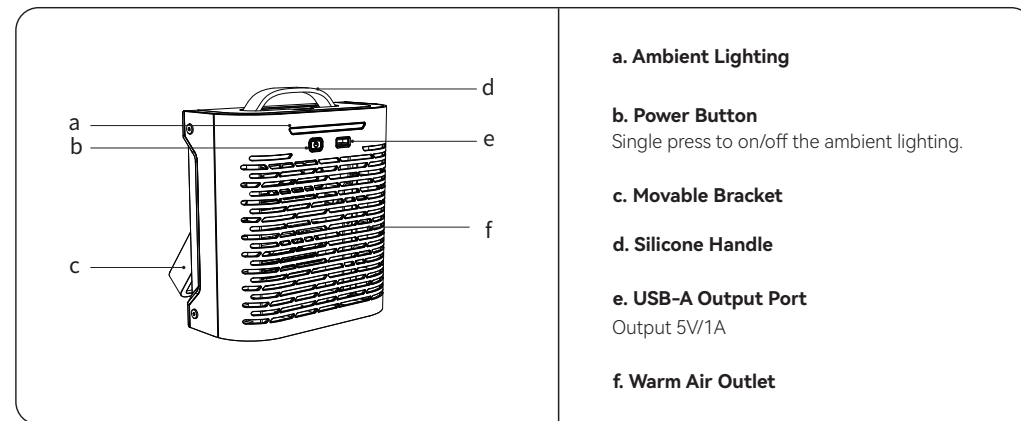
Connection And Function Instruction

9. Water Level Observation Window

Checking the amount of coolant remaining, there is a minimum water level line.

Ensure the remaining coolant is over the minimum line.

10. Sub-device



11. Air inlet

Air inlet input the oxygen for burning.

12. Handle

13. Gas Tank Interface

To install the mountain gas tank or adapter.

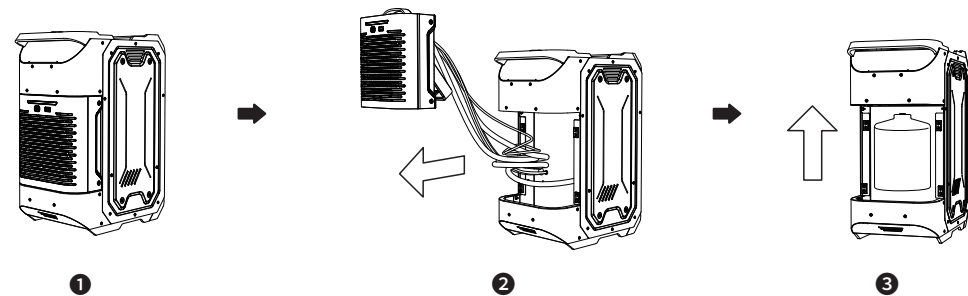
Technical Specification

Common Dat	
Weight	10KG (Net) / 12KG (Gross)
Specification	Product dimension: 180*280*400mm
	Package dimension: 345*245*460mm
Working Temperature	-10 ~ 25°C
Optimal Storage	0 ~ 35°C
Certificates	TSCA, CEC, DOE, CE, SAA, ROHS, UN38.3
Battery	Lithium-ion Power Battery
Battery Capacity	14.8V 2600mAh
Gas Supply	Mountain Gas Tank
Heating	
Heating power	800W
Input (Charge)	
TYPE-C-PD Input	5V / 9V / 12V / 15V / 20V (30W Max)
Output (Discharging)	
TYPE-C-PD Output	5V / 9V / 12V / 15V / 20V (30W Max)
USB-A (Sub-device)	5V 1A
Warranty	
Machine Warranty	1 Year

*The above parameters are manual measurement errors, please refer to the actual.

Operating Instruction

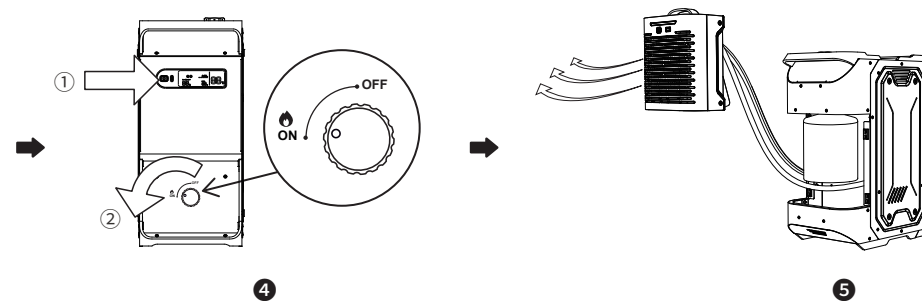
1. Product Operating Instruction



① Take out the device.

② Take out the sub-device.

③ Install the gas tank.



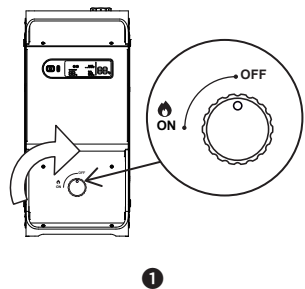
① Long press the power button for 2s.

② Turn the fire control button to the ignition icon to start firing.

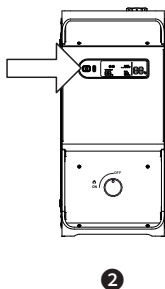
After successful ignition, the sub-device begins to work. In a few minutes, the sub-device hot-blast temperature reaches to the ideal state.

Operating Instruction

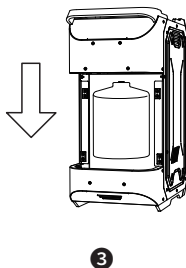
2. How To Storage



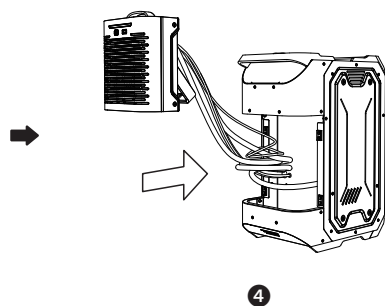
1 Rotate the fire control button to the shutoff point.
The device is in the closed state.



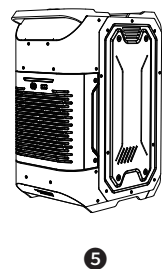
2 The coolant temperature decreases to the set value, the water pump and fan stop working, long press the power button for 2s to turn off the device.



3 Remove the gas tank.



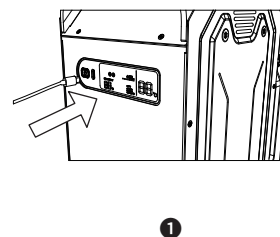
4 Storage cords and hoses into the storage compartment.



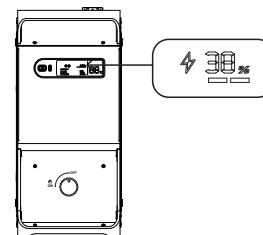
5 The device complete storage.

Operating Instruction

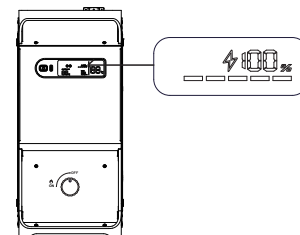
3. The charging Instruction



1 Connect the charging cable to the Type-C port.

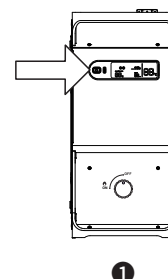


2 The screen shows the charging and battery power status.

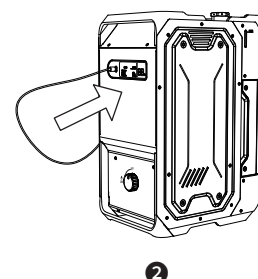


3 Charge to 100%, a full state of charge. Then the charging device can be unplugged to complete charging.

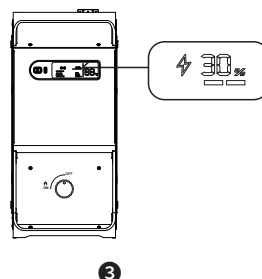
4. The Discharging Instruction



1 Long press for 2s to turn on the device.



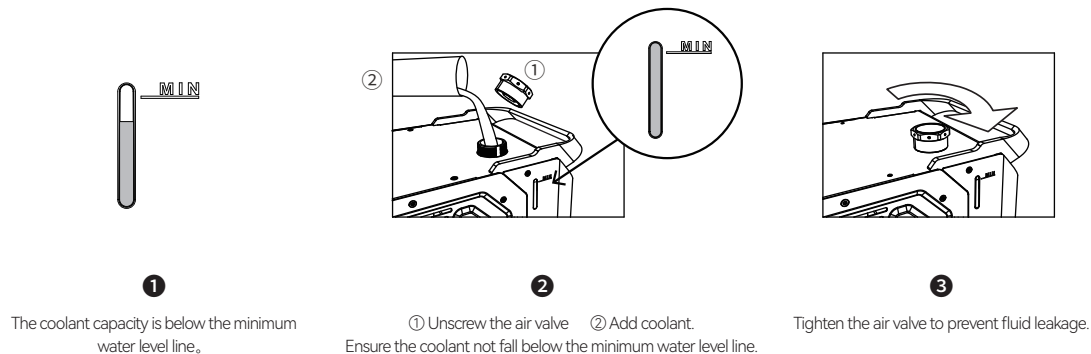
2 Connect the Type-C can charge external devices.



3 Stop charging external devices when the screen shown battery power is below 30%

Operating Instruction

5. How To Add Coolant



*If the device is in an unused or stored state, please charge it once every three months (including the use of heating and power generation) to prevent power shortage when in use.

*The applicable ambient temperature of this device should be less than or equal to 25°C.

Trouble Shooting

Problem	Trouble Shooting	Solution
The device cannot be started up	1. The device has been stored for a long time (such as not being used for half a year or more than a year), and the internal battery is exhausted, resulting in inability to start.	A charging cable with a Type-C interface needs to be used to connect the device. Press and hold the power button for 2 seconds. The device starts up normally and enters the charging state. When the power display is greater than 5%, it can be switched to use the device's own thermoelectric generation function to charge the device.
The device power on but can not charging externally	1. To store electrical energy for heating and start the fan and water pump. When the power is less than 30%, the external charging function of the Type-C interface is turned off.	Turn on the device and rotate the fire control button to ignite the fire for thermoelectric generation to replenish electricity.
	2. The charging cable connection is loose or the charging cable is damaged.	Check the connection and replace a new charging cable.
Rotating the fire control button cannot ignite	1. Check whether the fire control button adjust to the ignition icon position.	Adjust the fire control button to the ignite position.
	2. Check whether the device is turned on and battery level is more than 0%.	Charge the device.
	3. Check whether the gas tank is properly connected.	Connect the gas tank properly.
	4. Check whether the gas tank with sufficient power gas to use.	Ensure sufficient power gas to use.
The sub-device cannot blow out warm air.	1. Check whether there is a combustion flame in the main engine combustion chamber of the device.	If not, it is necessary to rotate the fire control button to ignite the fire.
The sub-device cannot charge external devices.	1. Check whether the power of the device is less than 5%.	Wait for the device's thermoelectric generation to supplement the power to more than 5%.
The sub-device ambient lighting doesn't light on.	1. Check whether the power button of the ambient lighting is turn on.	Single press the power button to turn on the ambient lighting.
	2. Check whether the power of the device is less than 5%.	Wait for the device's thermoelectric generation to supplement the power to more than 5%.
If your problem has not been solved base on the above, please contact customer service.		

Warranty

The warranty is 1 year. In all cases, the warranty period begins on the date of purchase by the consumer, and in order to determine the start date of the warranty period, it is necessary to provide the consumer with proof of purchase or other reasonable documentary evidence.

Warranty Exclusions:

- 1) The product has been subjected to abnormal or incorrect use, abnormal conditions or improper storage, unauthorized disassembly or alteration, installation resulting in damage or risk of inherited damage, such as failure to follow the instructions and guidelines for use, exposure to water and dust, dismantling, repairing, dropping, etc. The product is not intended to be used for any purpose other than for the purpose for which it was intended.
- 2) The use of non-standardized or damaged gas tanks, or the outdoor box has obvious damage by human force.
- 3) Product damage caused by the factor of force majeure such as natural disasters, lightning, floods, earthquake accidents, etc.
- 4) Concealment of abnormal use of the product, water ingress into the product, and other situations where there is a risk of malfunction, resulting in failure of repair or malfunction after testing and repair.
- 5) Any product not sold through our authorized channels, and the model, number and manufacturing number indicated on the product have been altered, deleted, moved or are illegible.
- 6) The device repaired through the center without our authorization.
- 7) Not cover for any damage like dropping, crushing, immersion in water, or bending.
- 8) Faulty issue is from other than the device.
- 9) Products that have exceeded the warranty period, have been discontinued outside the warranty period, have no related spare parts available for repair, or have no repair value.
- 10) The shape is seriously deformed, damaged or dusty, and the original form is damaged or affects the internal structure which is no longer worth repairing.
- 11) The device damage caused by the addition of non-coolant fluids.

The final interpretation of this manual belongs to the merchant.

Package Contents

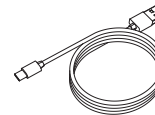
Product x 1



Gas Tank Interface Seal
Ring x 2 (Sealing ring
spare supplies)



Charge cable x 1



Instruction manual x 1



Product Warranty Card

Product Model: _____

Purchase Time: _____

Factory Serial Number: _____

User Name: _____

Production Date: _____

User Phone Number: _____

1. This product has a warranty period of one year from the date of sale.
2. Our company will provide you with high-quality after-sales service.
3. If the product is damaged due to human factors by the user, our company will charge a repair fee when repairing.
4. Please keep this card properly. Our company will take this as the retention basis.